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1: Ann Oncol. 2004 Feb; 15(2):236-41.

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Clinical significance of the overexpression of the candidate onco CYP24 in esophageal cancer.

Mimori K, Tanaka Y, Yoshinaga K, Masuda T, Yamashita K, Okamoto Inoue H, Mori M.

Department of Surgery, Medical Institute of Bioregulation, Kyushu Universii Beppu, Japan.

BACKGROUND: By using array comparative genomic hybridization (CGH increased copy number of CYP24 (which encodes vitamin D 24-hydroxylase 20q13.2 was previously reported, leading to the identification of CYP24 as a candidate oncogene in breast cancer. CYP24 leads to abrogate growth contro mediated by vitamin D. MATERIALS AND METHODS: We examined CYI expression as well as VDR (vitamin D receptor) gene expression in 42 esoph cancer cases using semi-quantitative RT-PCR assay. We induced CYP24 in § esophageal cancer cell lines using 25-hydroxyvitamin D3 [25(OH)D3] and compared cell growth rate, measured using the 3-(4, 5-dimethylthiazol-2-y)-2 diphenyltetrazolium bromide (MTT) assay system. RESULTS: The overall s rate was significantly higher in 25 cases of lower CYP24 expression than 17 higher CYP24 expression (P < 0.05); on the other hand, 23 cases of low VDR expression had a poorer prognosis than 19 cases of high VDR expression. Me we disclosed that the inverse correlation between CYP24 and VDR expressic significant in esophageal cancer cases (P < 0.05). Furthermore, the cell growt evaluated by MTT assay was greatly increased in CYP24-induced and VDRdiminished cells than non-responding cells by 25(OH)D3 activity (P <0.01). CONCLUSIONS: Overexpression of the candidate oncogene CYP24 is inver correlated to vitamin D receptor expression, and may play an important role i determination of the malignant potential of esophageal cancer.

PMID: 14760115 [PubMed - indexed for MEDLINE]

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